Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of Work: Providing Children Play Equipments and Senior Citizen Gym Equipments and Landscape Development to Parks in Ward no. 07, Kodigehalli of Yelahanka Zone

MODIFIED ESTIMATE

Behind Gundanjaneya Temple

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
A	**Civil Works**								
1	KSRRB M200-10.1. **Clearing and grubbing road land** including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. I. By Manual Means: A. In area of light jungle. MORTH Specification No. 201. (BCSR 2016-2017, Page 136, Item No 18.13)								
				As per drawing					
	Total Area (Amruthalli park)	**Ha**	1	161.20			161.20		
	Quoted Rate						**0.16**	**58067.06**	**9360.41**
2	**Excavation in Soil with Dozer** KSRRB M300-11. Excavation for road way in all types of soil by mechanical means including cutting and pushing the earth to site of embankment including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MORTH Specification No. 301.								
	Lowering & Levelling	**Cum**							
	Total Area (Amruthalli park)		1	161.20		0.25	40.30		
	For - alround		1	48.00	30.00	0.80	1152.00		
	Walking Track		1	282.30	3.00	0.20	170.00		
	For Chain Link Fencing - alround								
	Chain Link Fencing		1	151.20	0.75	0.45	52.00		
	Steps		1	2.90	1.40	0.45	2.00		
			1	37.90	1.00	2.50	95.00		
			1	55.40	1.00	2.50	139.00		
			1	23.60	1.00	2.50	59.00		
	Quoted Rate						**1709.30**	**208.38**	**356183.93**
3	KSRB 2.2.6 : Excavation 1.5m and above in width in hard rock by chiselling and / or wedging, where blasting is prohibited for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m. in depth stacking the excavated stuff clear from the edge of excavation with lead upto 50m including cost of labour complete as per specifications. Specification. No. KBS (BCSR 2016-2017, Page 5, Item No 2.8)								
	Not operated								

Item No	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
4	**KSRRB M300-Construction of Embankment with Material Gravel/Murrum** KSRRB M300-53. Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305.								
	vide item no. 2								
	Play Area	**Cum**	1	161.20		0.45	72.54		
	alround		1	33.70	10.20	1.30	447.00		
			1	73.50	21.00	0.30	464.00		
			1	11.50	16.00	1.20	221.00		
			1	24.20	4.00	1.20	117.00		
	Walking Track		1	282.30	3.00	0.30	255.00		
	Quoted Rate						**1576.54**	**358.78**	**565631.02**
5	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
		Cum							
	For Walking Track - alround								
	Walking Track		1	282.30	2.70	0.25	190.55		
	Quoted Rate						**190.55**	**1981.58**	**377595.02**
		Not operated							
6	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs. with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2 (BCSR 2016-2017, Page 12, Item No 4.3)								
	For Walking Track - base								
		Cum							
	Open Gym Platform		1	16.00	9.90	0.15	23.76		
	Steps		1	2.50	1.10	0.10	0.28		
	Chain Link Fencing		1	151.20	0.75	0.15	17.01		
			1	37.90	1.00	0.15	5.69		
			1	55.40	1.00	0.15	8.31		
			1	23.60	1.00	0.15	3.54		
	Quoted Rate						**58.58**	**5782.00**	**338709.56**

Item No	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
7	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. (BCSR 2016-2017, Page 101, Item No 14.6)								
	For Walking Track - base								
	Walking Track	**Cum**	1	285.00	2.70		769.50		
	Quoted Rate						**769.50**	**1083.46**	**833722.47**
8	KSRB 5.2-2 : Providing and constructing **granite / trap / basalt size stone masonry** in foundation with cement mortar 1 : 6 stone hammerd dressed in courses not less than 20 ems high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	For Chain Link Fencing	**Cum**							
	Chain Link Fencing(0.90Wide)								
			1	37.90	0.90	0.80	27.29		
			1	55.40	0.90	0.80	39.89		
			1	23.60	0.90	0.80	16.99		
	Chain Link Fencing(0.75Wide)						0.00		
			1	151.20	0.75	0.40	45.36		
			1	37.90	0.75	0.80	22.74		
			1	55.40	0.75	0.80	33.24		
			1	23.60	0.75	0.60	10.62		
	Chain Link Fencing(0.6 Wide)		1	151.20	0.60	0.40	36.29		
	Quoted Rate						**232.42**	**4974.16**	**1156074.37**
9	KSRB 4-1 .6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement@ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.(BCSR 2016-2017, Page 12, Item No								
	Coping								
	Chain Link Fencing	**Cum**							
			50	0.40	0.45	0.40	3.60		
			47	0.40	0.45	0.40	3.38		
			1	151.20	0.45	0.10	6.80		
			1	37.90	0.45	0.10	1.71		
			1	55.40	0.45	0.10	2.49		
			1	23.60	0.45	0.10	1.06		
	Steps		1	1.55	1.35	0.10	1.00		
			1	2.10	1.35	0.10	1.00		
	Open gym equipment fixing		26	0.60	0.60	0.45	4.21		
	Quoted Rate						**25.26**	**6463.91**	**163281.60**

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
10	Providing and laying/fixing cement base, precast, pre polished cement concrete, **designer tiles 25mm thick for flooring** conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification (BCSR 2016-2017, Page 109, Item No 14.62)								
	Open gym	Sqm	1	15.75	10.20		160.65		
	Steps								
	Treads		2	1.50	0.20		0.60		
	Rise		2	1.50		0.15	0.45		
							161.70	**1288.98**	**208428.07**
11	KSRRB M2200-8.1. **Back filling** behind abutment, wing wall and return wall complete as per drawing and Technical Specification complete as per specifications. A. Granular material MORTH Specification No. 2204								
	Chain Link Fencing	**Cum**	1	151.70	0.20	0.30	9.10		
	Quoted Rate						**9.10**	**622.51**	5666.09
12	Providing **chain link fencing** 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.3)								
	Chain Link Fencing	Sqm	1	151.20		2.10	317.52		
			1	116.90		1.80	210.42		
	Quoted Rate						**527.94**	**782.89**	**413318.95**
13	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (BCSR 2016-2017, Page 262, Item No 37.2)								
	Chain Link Fencing	**m**	42	2.55			107.10		
			50	2.50			125.00		
	Quoted Rate						**232.10**	**972.97**	**225826.34**
14	Providing and fixing **M.S. Block pipe** of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.4)								
	Chain Link Fencing	**m**	2	151.20			302.40		
			2	116.90			233.80		
	Quoted Rate						**536.20**	**384.91**	**206388.74**

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
15	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								
	Gate	Sqm	1	4.90	2.25		11.03		
	Gate	Sqm	1	2.30	2.10		4.83		
	Quoted Rate						**15.86**	**13722.53**	217570.71
16	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 ", as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (BCSR 2016-2017, Page 25, Item No 5.26.1)								
	Steps	Sqm	1	1.30		0.40	0.52		
			1	1.30		0.20	0.26		
	Quoted Rate						**0.78**	**1113.16**	868.26
17	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (BCSR 2016-2017, Page 113, Item No 15.15)								
		Sqm	2	1.30	0.40		1.04		
			2	1.30	0.20		0.52		
	Quoted Rate						**1.56**	**289.87**	452.20
18	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete (BCSR 2016-2017, Page 182, Item No 24.1)								
	For Walking Track	Nos	2	285.00			570.00		
	Open gym platform		1	63.60			63.60		
	A					A	**633.60**		
	B=A/.045					B	**1408.00**	**371.84**	523550.72
	Quoted Rate								
19	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8.								
	For Walking Track	Sqm	2	285.00	0.40		228.00		
	Open gym platform(kerb)		2	61.00	0.40		48.80		
	Steps(Kerb)		2	2.60	0.40		2.08		
	Quoted Rate						**278.88**	**71.28**	19878.57

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
20	Supply and Fixing of Pull Down Challenger. Metal: All tubular steel of 2 .5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All weld d joints are scalloped as necessary and welded to an approved MIG process.All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at II the welding points prior to finishing . All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. Allmetal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to 1507227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for th e handles. Bearings:Maintenance-free ball bearings. Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified internat ional certifying agency such as IPEMA.TUV.CPSC. or SGS only.The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS ma rk as has been issued in the EN16630 safety certificates. Size_ L x W x H): 2570 x 805 x 2685 mm. Weight: 85.4 Kg Safety Area : 6287 x 4858 mm Capacity_2 Persons.								
		Unit	1				1.00		
	Quoted Rate						**1.00**	**264000.00**	**264000.00**
21	Supply and fixing of Seated Chest Press. Metal: All tubular steel of 2.Smm thikness are galvanized and z inc dipped. Joints are Robotic welded. All welded joints t1H • scalloped as necessary and welded to an approved MIG process. All welds an• 111 cesd off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the w 11lt1ing points prior to finishing. All metal parts are powder coated using AKZO Nobel (11 ea t Wall powder to the thickness of 80-120 microns. All metal parts are tested in rn 1r a lt spray machine that uses a 5% NaCl solution in accordance to 1507227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handle!,,Bearings: Maintenance-free ball bearings. Scope of delivery: 1completely Prt' .ssembled equipment modules. Maintenance: Maintain according to EN 166630 and the maintenance guide. Safety: All products must be tested and certified to mt•(•lEN16630 safety standards with GS test mark. The EN 16630.certificates must be issued by a reputed notified international certifying agency such as IPEMA, 1UV. CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party.All products must clearly display the GS inark as has been issued in the EN16630 safety certificates. All products must carry n GS mark :in it.. Size_								
		Unit	1				1.00		
							1.00	**253000.00**	**253000.00**
22	Supply and fixing of Self Weighted Rower. Metal: All tubular steel of 2.Smm thickness are galvaniied and zinc dipped. Joints are Robotic welded. All welded joiflts arc • scalloped as necessary and welded to an approved MIG process. All welds arc dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our sa lt S'PI,ray machine.that uses a 5% NaCl solution in accordance to IS07227 to speed up3 c_6rrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1completely pre-assembled equipment modules. Maintain according to EN 16630 and the maintenance guide. Safety:All products must be tested and certified to meet EN16630 safety standards only by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS. The GS Mork• EN16630 Certificates must be in the name of tendering party and not any 3rd p::11 ty All products must carry a GS mark on it.. Size_L x W x H}: 1390 x 805 x 1100 mm. Weight: 42.4 Kg Safety Area: 3790 x 3205 mm Capacity_1 Person.								
		Unit	1				1.00		
	Quoted Rate						**1.00**	**181500.00**	**181500.00**

Item No	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
23	Supply and fixing of Elliptical Cross Trainer. Metal: All t\jbular steel of 2.Smm thickness are galvanized and zinc dipped. Joints are RClbotic welded. All weldecl 1oints a re scalloped as necessary and welded to an approve(j MIG process. All welds .i re dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at .ill the welding points prior to finishing. Alt metal parts are PCl\vder coated using AKZO Nobel Great Wall powder to the thickness of 80-120 microns. All metal parts are testecJ in our salt spray machine that uses a 5% NaCl solution iri lilccordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality €rip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1completely.pre-assembled equipment modules. Maintenance: Maintain according to EN 1G630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards w ith GS test mark.The EN 16630 certificates must be issued by a reputed notified international certifying agl!ncy uch as IPEMA,TUV ,CPSC, or SGS only .The GS Mark-EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with 1 he tender document. Alt products must clearly display tt) GS mark as has been i ued in the EN16630 safety certificates. Size_L x W x H):126/ 582 x 1764 mm. Weight : 43.5 Kg Safety A rea: 4322 x 3632 mm Capacity 1Person.								
		Unit	2				2.00		
	Quoted Rate						**2.00**	**154000.00**	**308000.00**
24	Supply and Fixing of Rider. Metal: All tubular steel of 2.smm thickness are galvd 1 ilzed and zinc dipped . Joints are Robotic welded. All weldect joints are scalloped as necessary and welded to an approved MIG proi;ess. .<\11 welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing.All metal parts are powder Clated using AKZO Nobel-G reat Wall powder to the thickness of 80-120 microns. All ll\etal parts are tested in our sa lt spray machine that uses a 5% NaCl solution in accorcJ<ince to 1507227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubher is used for the handles. 5 Bearings : Maintenance-free ball bearings...Scope of c:l livery: 1completely pre-assembled equipment modules. Maintenance: Maint<1in according to EN 16630 a nd the maintenance guide. Safety: Alf products must b tested and certified to meet EN16630 safety standards with GS test mark. The El\! 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA. TUV .CPSC, or SGS only. The GS Mark-EN16630 Certificate must be in the name of tendering party and not any 3rd party. All products 'hust clearly display the GS mark as has been issued in the EN 16630 safety certificat . Size L x w x H): 910 x 655 x 1270 mm. Weight : 29.5 Kg Safety Area: 3310 x tnm C:pacity_1 Person								
		Unit	2				2.00		
	Quoted Rate						**2.00**	**99000.00**	**198000.00**
25	Supply and Fixing of Bicycle. Metal: All tubular steel of 25mm thickness are galvani zed and zinc dipped. Joints are Robotic welded. All welded joint s are S('.llloped as necessary and w eldea to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the weltling points prior to finishing.All metal parts are powder coated using AKZO Nobel GreatWall powder to the thickness of 80- 120 microns. All metal parts are tested in our salt v pray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up - orrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. each 1 125000 125000 131188 131188 134500 134500 Bearings: Maintenance-free ball bearings . Scope of delivery: 1completely pre assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to mee t EN16630 safety standards only by a reputed notified international certifying acency such as IPEMA,TUV,CPSC, or SGS. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. Size_L x W x H): 1000 x 498 x 120 mm. Weight : 51.5 Kg Safety Area: 3400 x 3498 mm Capacity_ 1 Persons.								
	Data Rate	125000.00							
		Unit	2				2.00		
	Quoted Rate						**2.00**	**137500.00**	**275000.00**

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
26	Supply and Fixing of Arm & Pedal Bike. Metal: All tubular steel of 2.Smm thickness a re galvanized and zinc dipped.Joints are Robotic welded.All welded joints are sca lloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles.Bearings : Maintenance-free ball bearings.Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide.Safety : All products must be tested anEI certified to meet EN16630 safety standards only by a reputed notified international certifying agency such as IPEMA,TUV, CPSC, or SGS. The GS Mark- EN16630 Certificates must be in t he name of tendering party and not any 3rd party.Size_L								
		Unit	1				1.00		
	Quoted Rate						**1.00**	**187000.00**	**187000.00**
27	Supply and Fixing of Tai Chi Spinners . Metal: All tubular steel of 2.Smm thicknp<.s are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are sc;illoped as necessa ry and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the w eldin points prior to finishing. All metal parts are powder coated using AKZO Nobel G reat Wall powder to the thickness of 80- 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to JS07227 to speeu up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance -free ball bearings. Scope of delivery: 1completely pre-assembled equipment modules. Maintena nee:Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUY, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. Thecertificates must be attached with the tender document . All products must clearly -display the GS mark as has been issued in the EN15630 safety certificates. Size_ L x W x H): 1120 x 1150 x 1620 mm. Weight: 39 Kg Safety Area: 3520 x 3550 mm Capacity_3 Persons.								
		Unit	2				2.00		
	Quoted Rate						**2.00**	**126500.00**	**253000.00**
28	Supply and fixing of Twist Stepper. Metal: All tubular steel of 2.Smrn thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are sca lloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-GreatWall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings.Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark.The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV ,CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates . Size_ L x W x H): 1395 x 650 x1750 mm. Weight: 53.8 Kg Safety Area.: 3795 x 3050 mm Capacity_2 Persons.								
		Unit	1				1.00		
	Quoted Rate						**1.00**	**198000.00**	**198000.00**

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
	Supply and fixing of Big Shoulder Wheel. Metal: All tubular steel of 2.Smni 1111ckness are galvanized and zinc dipped. Joints are Robotic welded. All welded joint ure scalloped as necessary and welded to an approved MIG process. All welds arc' dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the w elding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80- 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles.CV-10 Bearings: Maintenance-free ball bearings. Scope of delivery:1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to rneet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party.All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H): 845 x 810 x 1710 mm. Weight: 34 Kg Safety Area: 3224 x 3376 mm Capacity_2 Persons.								
		Unit	2				2.00		
	Quoted Rate						**2.00**	**132000.00**	**264000.00**
	Supply and fixing of HD Health Walker. Metal: All tubular steel of 2.Smm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joint s arescalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a S% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bea rings.11 Scope of delivery: 1completely pre-assembled equipment modules. Maintenance: Maintain according to EQ_and the maintenance guide.Safety: All productsmust be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with the tender document . All products must clearly display the GS mark as has been issued in the EN16630 safety certificates .Sizelx W xH): 1065 x 615 x 1364 mm.Weight: 51Kg. Safety Area: 4090 • 3555mm. Capacity 1 Person								
	Data Rate	140000.00							
		Unit	2				2.00		
	Quoted Rate						**2.00**	**154000.00**	**308000.00**
	Supply and fixing of HD Squat Pushing. Metal:All tub.ular steel of 2.Smm1hicknos are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are sca lloped as necessary: and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing . All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our sa lt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles 13 Bearings: Maintenance-free ball bearings.Scope of delivery: 1completely pre-assembled equipment modules.Maintenance: Maintain according to EN 16630 andthe maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only .The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party.All products must clearly display the GS ma rk as has been issued in the EN16630 safety certificates.Sizelx W x H): 2270 x 635 x 1640 mm. Weight: 60.2Kg.Safety Area: 5300 * 3685mm. Capacity 2 Persons								
		Unit	1				1.00		
	Quoted Rate						**1.00**	**236500.00**	**236500.00**

Item No	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
32	Supply and fixing of HD Waist Twister. Metal : All tubular steel of 2.Smm thic k11ess are ga:vanized and zinc dipped. Joints are Robotic welded. All welded joints are scJlloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns.Al l metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to IS07227 to speed up rrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. arings : Maintenance-free ball bearings.Scope of delivery: 1completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA,TUV, CPSC. or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H}:1460 x 1310 x USO mm. Weight: 39.l Kg Safety Area : 4360 x 4510 mm Capacity_3 Persons.								
		Unit	2				2.00		
	Quoted Rate						**2.00**	**143000.00**	**286000.00**
33	Supply and Fixing of HD.Mini Ski. Metal:All tubular steel of 2 .Smm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed offremoving all sha rp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing.All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to 1507227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1completely pre-assembled equipment modules. Maintenan(::e :Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meetEN16630 safety standards with GS test mark.The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA. TUV.CPSC. or SGS only.The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party.All products must clearly display the GS mark as								
	Data Rate	160000.00							
		Unit	2				2.00		
	Quoted Rate						**2.00**	**176000.00**	**352000.00**
34	Supply and fixing of HD Double Health Walker. Metal: All tubular steel of 2.50mm thickness are galvanized and zinc dipped. Joints are Robotic welded . All welded joints are scalloped as necessary and welded to an approved MIG process. All welds a re dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied ut all the welding points prior to finishing. All metal parts are powder coated using AK ZO Nobel Great Wall powder to the thickness of 80-120 microns. All metal parts are test ed in our salt spray machine that uses a 5% NaCl solution in accordance to 1507227 to peed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the tlandles. Bearings: Maintenance-free ball bearings.Scope of delivery : 1completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must besuch as IPEMA, TUV,issued by a reputed notified international certifying agency CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party.All products must clearly display the GS mark as has been issued in the EN16630 safety certificates.Sizel x W x H): 2015 x 615 x 1360mm .Weight: 93Kg. Safety Area: 5015 • 3015mm. Capacity2 Person								
		Unit	1				1.00		
	Quoted Rate						**1.00**	**264000.00**	**264000.00**

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
35	Providing and fixing granite benches as per design, specification and fixing as per the directions of the engineer in charge.								
		No	15				15.00	11605.00	174075.00
36	MANUFACTURING:-PROVIDING AND FIXING A GAZEBO of Size 22 feet dia approximate) made of MS Round pipe of 6 inches diameter of 12 SWG for pillars 10feet in height,in which 8ft will be above the ground level and 2 feet embedded in cement concrete and provided with MS plate on top of the pillars.MS I section 100x50mm of heavy gauge for Rafters)is placed between the poles on top of the flush plate.Also MS rectangular tubes of 100x40mm are to be mounted vertically on all 8pillars.MS rectangular tubes of 40x20mm reepers are welded horizontally in between the rectangle tubes for a distance of 1 feet approximately so as to get the desired octangol Shape for fixing approved qualoity Corrugated Managlore tiles on the roof 2 layers as per the design. Flat design tiles and rigid tiles are to be provided on Existing reepers and pointed with cement mortar.The Gazebo is to be fixed ob asuitable platform the central height being 15 to 16 feet and including allround bed Concrete 1:4:8 and tampered with fine red earth with cement slurry.the works includes earthwork excavation concreteing,masonry work and cost of all materials labour equipments machinery with all lead and lift loading and unloading etc complete including two coats of approved quality special spray paint over of primer and excecuting the work as per the directions of the engineer in charge								
	Not Operated								
B	**Borewell**								
37	Sinking Borewell of 165mm dia clear, using fast rig in all strata including over-burden upto 20mts. Fixing of casing Pipes, collars and cap with necessary cutting and threading including, transportation of Rig and supporting vehicle, crew charge and cost of consumbles, etc, complete including yield testing at the final depth with a minimum woring of compressor for one hour. (excluding cost of casing pipes, collars and cap, etc.)								
	a) 0.00 to50.00 Mtr	Rmtr	1	50.00			50.00	336.60	16830.00
38	b) 50.00 to 100.00 Mtr	Rmtr	1	50.00			50.00	440.00	22000.00
39	c) 100.00 to 150.00 Mtr	Rmtr	1	50.00			50.00	489.50	24475.00
40	d) 150.00 to 200.00 Mtr	Rmtr	1	50.00			50.00	517.00	25850.00
41	e) 200.00 to 250.00 Mtr	Rmtr	1	50.00			50.00	598.40	29920.00
42	f) 250.00 to 300.00 Mtr	Rmtr	1	50.00			50.00	641.30	32065.00
43	g) 300.00 to 350.00 Mtr	Rmtr	1	35.00			35.00	684.20	23947.00
44	Supply of ISI Mark 175mm nominal Bore, Plain end steel casing Pipe-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty. **Page No.ii, I.No.53 PRE Bang SR 2016-17**								
		Rmtr	1	7.00			7.00	1457.50	10202.50
45	a) Above 20mtrs and upto 30mtrs.@15%	Rmtr	1	7.00			7.00	50.49	353.43
46	b) Above 30mtrs@30%	Rmtr	1	14.00			14.00	110.00	1540.00
47	175mm M.S. B-Class Casing Collar (P.No.ii,I.No.55)								
		Nos	5				5.00	165.00	825.00
48	175mm dia Casing Cap (P.No.ii,I.No.54)								
		Nos	1				1.00	110.00	110.00

Item No	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
49	Supply and delivery at site brand new submesible PUMPSET suitable for bore well of 150 mm dia and having declared duty conditions as detailed below and satisfying performances characteristics for pump and motor as declared by bureau of Indian standards. The pump should confirm to IS:8034-1970 (with all its latest amendments) and should bear the ISI mark 12.5 HP 20 stage (CRI Pumps)(**SR 2016-17 page xxxxll sl no 23)**								
	H=150m dish 150 LPM	**Set**	1				**1**	**77660**	**77,660.00**
50	Supply and Delivery of Galvanized Mild steel Heavy Class (C-Class) conforming to IS 1239-1979 PART-I/1979 with lastest amendments with ISI mark (one end fitted with ISI mark heavy duty collar and other end fitted with Protective cover) 50 mm dia								
	50mm dia G.I Pipe with heavy duty	**Mtr**	1	250.00			**250.00**	**412.50**	**103125.00**
51	Submersible Cable: Supply and Delivery of brand new best make PVC insulated cable of flat 3core (sheathed) of nominal cross sectional area containing to IS 894-1997 with latest amendments (as per SPD) 4 Square mm								
	280*2+10	**Mtr**	1	450.00			**450.00**	**89.10**	**40095.00**
52	50 mm dia GI Collar Heavy duty								
		Mtr	1	30.00			**30.00**	**143.00**	**4290.00**
53	Meter and Panel Board: Supply and Delivery of Meter and Panel Board: Meter Board unit one number of MS Box of size 300x120 mm size fabricated out of 2mm thick sheet metal with sealable door arrangement for munting the CTS (if any) cutouts 3phase dia 4 wire energy meter and cable box complete. A transparent glass piece should be provided where the energy meter reading could be read. Panel Board: One number of cubicle type of control panel board to operate on 50c/400/400v Upto 10 to 20 HP								
		Nos	1				1.00	**12100.00**	**12100.00**
54	50mm dia G.I.N.R. Valve								
		Nos	1				1.00	**941.60**	**941.60**
55	Erection & Commissioning of work of pumpset including aligning and balancing with all necessary erection of materials and labour including supply and erection of two pair of supporting clamps, one borewell cap, cable clips and water tight gland cable protectors, bolts nuts valves and gauges etc, all job including fixing sluice valve, non return valve etc, and connecting delivery side of pumpset to rising main etc, complete.								
		Nos	1				1.00	**935.00**	**935.00**
56	Power Capacitor: Supply and Delivery of brand new best make capacitor conforming to IS:2834-1986 with latest amendments with ISI mark of required capacity tested and approved by KPTCL anthorities and erection, electrification and commissioning of the same at the location of the respective pumpsets. Supply & Delivery of best indigenous brand new MCB (Miniature Circutit Breaker) of required capacity as per IS:8828-1978 and its latest amendment with ISI mark 6/10/20/25/40 amps with sealble box with MCB 3 KVAR								
		Mtr	1				1.00	**506.00**	**506.00**
57	Supplyin mmdia 2mm 2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive pase etc., and running before cocreting the slab. The conduit should be tiled to the reinforcement rods by using binding wires and unused ways of junction boxes and plpe ends should be covered using PVC end enclosuers. Run with 18SWGGI fish wire wherever necessary (P-2.1-1)								
	b)25mm dia 2mm thick	**Nos**	1	10.00			**10.00**	**48.71**	**487.10**
58	Supplying of TPST with rewirable porcelain channels in SM enclosure. (P-30. 1-1)								
	b)32amps	**Nos**	1				**1.00**	**1615.68**	**1615.68**
59	Supplying and fixing polished wood board made of not less than 15 mm thick plan on both sides with planks made out of more than two pieces and fixing the same to the wall using wooden plugs,								
	20X20X2.5	**Nos**	2				**2.00**	**338.58**	**677.16**

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
60	Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multistrand 2x1.5 Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box. The other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet (P-3. 1-8)								
	(a) Short Point upto 3Mtr form tapping point to outet via switch	Rmtr	1	1.00			1.00	207.90	207.90
61	© Long Point above 6 Mtr. Upto 10 Mtr. From tapping point to out let via switch	Rmtr	1	1.00			1.00	437.18	437.18
62	Supplying 6 A flush/projected type socket and a 6Amps flush/projected type SP switch either surface/flush mounting in a existing gang box or a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required (P-6., 1-12)								
	(b)6Amps3/5 Way	Nos	1				1.00	125.93	125.93
63	Wiring for lighting /power circuit using one of PVC insulated 1100V grade multis and Copper conductor single core cable in open or consealed system of wiring (P-9, 1-20)								
	Group "B"© 2.5Sq.mm	Rmtr	1	25.00			25.00	24.92	623.00
64	Supplying and fixing PBBC backelite straight or slant batten holder &wiring 60w/230 Volts lamps (P-13, 1-2)								
	Group B	Rmtr	1	3.00			3.00	66.53	199.59
65	Supplying and fixing of LED type panel borad indicating lamp with required colour suitable for 220 v A.C. 50 Hz 12/24v D.C (P-38, 1-35)								
		Nos	3				3.00	510.84	1,532.52
66	Supplying of LT UG cable having aluminium conductor PVC insulated. Sheathed. Galvanished. Steel wire/steel tape armoured cable with PVC outer sheathing 1.1KV class (conforming to IS 1554) Class-A (P-67, 1-10)								
	e)4.0 core 16Sqmm	Rmtr	1	12.00			12.00	178.20	2,138.40
67	Lobour charges for laying of 1.1KV class UG cable when supplied departmentally/ agency in existing trench GI pipe/stoneware pipe/on wall/on pole as required (P-68, 1-11)								
	a)10Sqmm to 16Sqmm	Rmtr	1	12.00			12.00	9.50	114.00
68	Digging of trench of 0.6mtrs deepx0.5 mtrs wide refilling the required gorund level and consolidating etc.. complete (P-68, 1-12)								
	a)in soil(ordinary)	Rmtr	1	8.00			8.00	47.52	380.16
69	Supplying and fixing of class 'A' GI pipe on pole /wall/drain crossing with necessary clamping arrangement for UG cable of 1.1KV class(P-69, 1-15)								
	a)65mm(upto 150Sqmm)	Rmtr	1	6.00			6.00	285.12	1,710.72
70	Supplying and fixing of heay duty cable glands suitable for UG cable of 1.1KV class metal only (P-69, 1-17)								
	a)25mm dia	Nos	1				1.00	78.41	78.41
71	Supplying and fixing miniature circuit breakers on existing MCB disitribution boards using necessary fixing materials and wiring complete as required (P-34, 1-13)								
	5-32 amps TPN	Nos	1				1.00	1193.94	1193.94
72	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc.. complete (P-30, 1-3) a) 32Amps								
		Nos	5				5.00	118.80	594.00

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
73	Supplying and fixing L.T. cast lorn pot heads suitable for 1.1. KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.,(P-69, 1-16) a) 16Sqmm								
		Nos	1				1.00	308.66	308.66
74	Supplying, fixing, wiring, earth electrode for gounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc.. is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checkunts etc., the pipe shall have 16 through holes of 122mm dia (P-66, 1-7)								
		Nos	1				1.00	2317.26	2317.26
75	Supplying decorative horizontal type street light fluorescent fitting weather and water proof complete with low loss open construction copper wound ferromagnetic ballast,starter,locking type brass contact holders with 1 No. of 4 feet 40 watts fluorescent tube completely wired for use on 230/250 volts, 50cycles AC supply with opal reeded Perspex cover at bottom complete fitting (P-17, 1-6)								
		Nos	1				1.00	1698.84	1698.84
76	Supplying & fixing mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluroscent tube street light fitting of all capacities of GI or CI or rail or RCC pole/ wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete(P-26, 1-1)								
		Nos	1				1.00	724.68	724.68
77	Providing and installing at site work P.V.C. Pipes including cost of pipes and specials and labour,including lowering into trenches,laying true to line,level and perfect linking at joints lead proof including jointing of approved type with all labour and lift charge, handling charges with all leads,including encasing the pipe around to a depth not less than 15cms with gravel or selected earth available from the excavation etc..complete[P.No.15 - I.No.3.4.2.a& b PRED SR 2016-17]a) 63 mm dia PVC pipes 6kg/cm.square=104*6%=110.24								
	For pipe line	mtr	1	128.00			128.00	121.26	15521.28
	EIRL								
E-1	Supply and Fixing of HD set up station : Metal All tubular steel of 2.5mm thickness are galvanized and zinc dipped joints are robotic welded, joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc primer paint is applied to all the welding points prior to finishing, all metal parts are powerded coated using AXZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metalk parts aare tested in our salt spreay machine that uses a 5% NaCl solution in accordance to IS07227 to speed up corrosion for 3000hrs. Rubber High Quality grip runbber is used for the handles, bearings, Maintaenence-free ball bearing. Scope of delivery: 1 Completely pre-assembled equipment modules. maintanance. Maintain according to EN 16630 and the maintainance guide. safety, all products must be tested and certified to meet EN16630 safety standards with GS test mark the EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only,. The GS Mark. EN16630 certificates. Size L x W x H) : 1412 x 1366 x 650 mm Weight: 42.6 Kg fits to trucks: 1162 x 1078 mm Capacity: 2 P								
	Data Rate	134500.00							
	TP 10.00% Above	13450.00							
	Total Amount	147950.00							
		Unit	2				2.00		
							2.00	147950.00	295900.00

Item No	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
E-2	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	Basic Rate	5005.00							
	Add Area weightage of 8%	400.40							
	Sub Total	**5405.40**							
	TP 10.00% Above	54.05							
	Total Amount	**5459.45**							
	For Chain Link Fencing	**Cum**							
	Steps		1	1.55	1.35	1.80	4.00		
			1	2.10	1.35	1.10	4.00		
	Chain Link Fencing(0.6 Wide)		1	37.90	0.60	0.60	13.64		
			1	55.40	0.60	0.60	19.94		
			1	23.60	0.60	0.80	11.33		
	Chain Link Fencing(0.45Wide)		1	151.20	0.45	0.40	27.22		
			1	37.90	0.45	0.40	6.82		
			1	55.40	0.45	0.40	9.97		
			1	23.60	0.45	0.40	4.25		
			-50	0.40	0.45	0.40	-3.60		
			-97	0.40	0.45	0.40	-6.98		
							90.59	5459.45	494571.94
								Total Cost of Construction, Rs.	10876764.12

Assistant Engineer, 14/10/19
Yelahanka Project Division

Asst. Exec. Engineer, 14/10/2019
Yelahanka Project Division

Executive Engineer, 14/10
Yelahanka Project Division

Technical Sanction
Accorded For Rs 10876764.12
Head of A/C....P.3213
CER NO :....30..... Dt:28.10.2019

AE CE (YNK)